

RAW SEQUENCE LISTING PATENT APPLICATION US/10/079,035

DATE: 03/13/2002 TIME: 23:49:54

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#2

This Raw Listing contains the General Information Section and up to the first 5 pages.

1 2		SEQUENCE LISTING
3	(1) Ge	eneral Information:
4		APPLICANT: Ryals, John ENTERED
5	(i)	APPLICANT: Ryals, John
6		Delaney, Terry
7 8		Friedrich, Leslie Weymann, Kristianna
9		Lawton, Kay
10		Ellis, Daniel
11		Uknes, Scott
12		Jesse, Taco
13		Vos, Pieter
14		
15		TITLE OF INVENTION: GENE ENCODING A PROTEIN INVOLVED IN THE
16		L TRANSDUCTION CASCADE LEADING TO SYSTEMIC ACQUIRED RESISTANCE
17	IN PLA	ANTS .
18 19	(444)	MIMDED OF CEOUPNOES. 17
20	(111)	NUMBER OF SEQUENCES: 17
21	(iv)	CORRESPONDENCE ADDRESS:
22	(= , ,	(A) ADDRESSEE: Novartis Corporation
23		(B) STREET: 520 White Plains Road, P.O. Box 2005
24		(C) CITY: Tarrytown
25		(D) STATE: New York
26		(E) COUNTRY: USA
27		(F) ZIP: 10591
28 29	()	COMPUTER READABLE FORM:
30	()	(A) MEDIUM TYPE: Floppy disk
31		(B) COMPUTER: IBM PC compatible
32		(C) OPERATING SYSTEM: PC-DOS/MS-DOS
33	*	(D) SOFTWARE: PatentIn Release #1.0, Version #1.30
34		
35	(vi)	CURRENT APPLICATION DATA:
36		(A) APPLICATION NUMBER: 10/079,035
37		(B) FILING DATE:
38		(C) CLASSIFICATION:
39	(±)	DETOR APRILICATION DATE.
40 41	(VII)	PRIOR APPLICATION DATA:
42		(A) APPLICATION NUMBER: 09/577,799
43		(B) FILING DATE:
44		· · · · · · · · · · · · · · · · · · ·
45		(A) APPLICATION NUMBER: 08/880,179
46		(B) FILING DATE:

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48	(wiii) AUTODNEY ACENT INFORMATION.								
49	(viii) ATTORNEY/AGENT INFORMATION:								
50	(A) NAME: Meigs, J. Timothy								
51	(B) REGISTRATION NUMBER: 38,241								
52	(C) REFERENCE/DOCKET NUMBER: CGC 1909								
53									
54	(ix) TELECOMMUNICATION INFORMATION:								
55	(A) TELEPHONE: (919) 541-8587								
56	(B) TELEFAX: (919) 541-8689								
57									
58									
59	(2) INFORMATION FOR SEQ ID NO:1:								
60	(2, 2.1.2)								
61	(i) SEQUENCE CHARACTERISTICS:								
62	(A) LENGTH: 9919 base pairs								
	(B) TYPE: nucleic acid								
63	(C) STRANDEDNESS: single								
64									
65	(D) TOPOLOGY: linear								
66									
67	(ii) MOLECULE TYPE: DNA (genomic)								
68									
69	(iii) HYPOTHETICAL: NO								
70									
71	(iv) ANTI-SENSE: NO								
72	\ = 1,								
73									
7 4									
75									
_	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:								
76	(XI) SEQUENCE DESCRIPTION. SEQ ID NO.1.								
77	THE TAX THE TAX TO BE THE TAX TO	60							
78	TGATCATGAA TTGCGTGTAG GGTTGTGTTT TAAAGATAGG GATGAGCTGA AGAAGGCGGT	00							
79		120							
80	GGACTGGTGT TCCATTAGAG GGCAGCAAAA GTGTGTAGTA CAAGAGATTG AGAAGGACGA	120							
81									
82	GTATACGTTT AAATGCATCA GATGGAAATG CAATTGGTCG CGTCGGGCAG ATTGAATAGA	180							
83									
84	AGAACATGGA CTTGTTAAGA TAACTAAGTG TAGTTGGTCC ACATACTTGT TGTTCTATTA	240							
85									
86	AGCCGGAAAA CTTCAACTTG TAATTTGCAG CAGAAGAGAT TGAGTGTCTG ATCAGGGTAC	300							
87	Accessive Circulative Circulat								
88	AACCCACTCT AACAGCAGAG TTGAAAAGTT TGGTGACATG CTTAAAACTT CAAAGCTGCG	360							
	AACCCACTCT MACAGCAGAG TIGAAAAGTT TGGTGACATG GTTTTTTTTTTTTTTTTTTT								
89	CARLOS CARLOS MARIA MARIA CAMBO CACOMORCACA CONTOCCOUTA AACTAATTCC	420							
90	GGCAGCAGAA CAGGAAGTAA TCAAAGATCA GAGTTTCAGA GTATTGCCTA AACTAATTGG	120							
91		480							
92	CTGCATTTCA CTCATCTAAT GGGCTACTTG TGGACTGCAA TATGAGCTTT TCCCTAATCC	400							
93		E 4 2							
94	TGAATTTGCA TCCTTCGGTG GCGCGTTTTG GGCGTTTCCA CAGTCCATTG AAGGGTTTCA	540							
95									
96	ACACTGTAGA CCTCTGATCA TAGTGGATTC AAAAGACTTG AACGGCAAGT ACCCTATGAA	600							
97									
98	ATTGATGATT TCCTCAGGAC TCGACGCTGA TGATTGCTTT TTCCCGCTTG CCTTTCCGCT	660							
99									

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						INDUM CEM COZ	707
100 101	TACCAAAGA	A GTGTCCACTO	ATAGTTGGC	G TTGGTTTCTC	ACTAATATCA	INPUT SET: S367 GAGAGAAGGT	7 96.raw 720
102 103	AACACAAAG	G AAAGACGTTT	GCCTCGTCTC	CAGTCCTCAC	CCGGACATAG	TTGCTGTTAT	780
104 105	TAACGAACC	C GGATCACTGI	GGCAAGAAC	C TTGGGTCTAT	CACAGGTTCT	GTCTGGATTG	840
106 107	TTTTTGCTT	A CAATTCCATG	ATATTTTTG	G AGACTACAAC	CTGGTGAGCC	TTGTGAAGCA	900
108 109	GGCTGGATC	C ACAAGTCAGA	AGGAAGAATI	TGATTCCTAC	ATAAAGGACA	TCAAAAAGAA	960
110 111	GGACTCAGA!	A GCTCGGAAAT	GGTTAGCCCA	A ATTCCCTCAA	AATCAGTGGG	CTCTGGCTCA	1020
112 113	TGACCAGTGO	TCGGAGATAT	GGAGTCATGA	CGATAGAAAC	AGAAGATTTG	AGGGCAATTT	1080
114 115	GTGAAAGCTT	TCAGTCTCTT	GGTCTATCAG	TGACAGCGAA	CGCACCTGCA	CATGTGGGAA	1140
116 117	GTTTCAATC	AAGAAGTTTC	CATGTATGCA	CCCAGAAATG	GTGCAAAGGA	TTGTTAACTT	1200
118 119	GTGTCATTC	A CAAATGTTGG	ATGCAATGGA	GCTGACTAGG	AGAATGCACC	TTACACGCCC	1260
120 121	ACTCAGTGTT	CTCTTATCTC	TAGACCTGAA	ACTAACTTGC	TGTGTAATTC	GAGTTACAAA	1320
122 123	AGGTTAAAGG	AAGAATTAGG	AAGATACATA	TAACATGAAT	GTTGCCAGAA	GTTCAGGGAA	1380
124 125	CTTGAATATI	CTTTTGGTTC	TTGGTGGAAA	ATATCCAACA	GATGAACAAT	TTGACATTAT	1440
126 127	TTCACACTTT	' GATTCTAGCA	ACTCTGTAAC	ACCATCATGG	GTTATTGTTG	ATGTACATAA	1500
128 129	ATATATATTA	CAAATCTGTA	TACCATTGGT	TCAAATTGTT	ACAACATTTG	TTTGAAGCAC	1560
130 131	ACCTGCAGCA	ATAATACACA	GGATGCAAAA	CGAAGAGCGA	AACTATATGA	CGCCAACGAT	1620
132 133	AGACATAAAC	AGTTACAGTC	ATCATGAAAA	CAGAATTATA	TGGTACAGCA	AAAATTACAC	1680
134 135	TAAGAGGCAA	GAGTCTCACC	GACGACGATG	AGAGAGTTTA	CGGTTAGACC	TCTTTCCACC	1740
136 137	GGTTGATTTC	GATGTGGAAG	AAGTCGAATC	TGTCAGGGAC	GAATTTCCTA	ATTCCAAATT	1800
138 139	GTCCTCACTA	AAGGCCTTCT	TTAGTGTCTC	TTGTATTTCC	ATGTACCTTT	GCTTCTTTTG	1860
140 141	TAGTCGTTTC	TCAGCAGTGT	CGTCTTCTCC	GCAAGCCAGT	TGAGTCAAGT	CCTCACAGTT	1920
142 143	CATAATCTGG	TCGAGCACTG	CCGAACAGCG	CGGGAAGAAT	CGTTTCCCGA	GTTCCACTGA	1980
144 145	TGATAAAAA	AACAAGGTCA	GACAGCAAGT	AACAAAACCA	TGTTTAAAGA	TCATTTAGTT	2040
146 147	TTGTTTTTTG	TGATAAGGAG	TCCGATGAAG	TGGGTGAGAA	TCCATACCGG	TTTTAGAAAG	2100
148 149	CGCTTTTAGT	CTACTTTGAT	GCTCTTCTAG	GATTCTGAAA	GGTGCTATCT	TTACACCCGG	2160
150 151	TGATGTTCTC	TTCGTACCAG	TGAGACGGTC	AGGCTCGAGG	CTAGTCACTA	TGAACTCACA	2220
152	TGTTCCCTTC	ATTTCGGCGA	TCTCCATTGC	AGCTTGTGCT	TCCGTTGGAA .	AAAGACGTTG	2280

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153					•		
153 154	AGCAAGTGCA	ACTAAACAGT	GGACGACACA	AAGAATAGTT	ATCATTAGTT	CACTCAGTTT	2340
155							
156	CCTAATAGAG	AGGACATAAA	TTTAATTCAA	ACATATAAGA	AATAAGACTT	GATAGATACC	2400
157							
158	TCTATTTTCA	AGATCGAGCA	GCGTCATCTT	CAATTCATCG	GCCGCCACTG	CAAAAGAGGG	2460
159							
160	AGGAACATCT	CTAGGAATTT	GTTCTCGTTT	GTCTTCTTGC	TCTAGTATTT	CTACACATAG	2520
161	magaaamma	1 C1 C1 1 ECC	maar mmaama	GGGGA MA MMA	mma ca mmca a	CCCCCA MA CM	2500
162 163	TCGGCCTTTG	AGAGAATGCT	TGCATTGCTC	CGGGATATTA	TTACATTCAA	CCGCCATAGT	2580
164	<u>ההתיהתיי</u>	СССАТСАТСА	стссссттст	አርርሞሞርር አ አ አ	Сттссттстс	ATGCACTTGC	2640
165	0001101111	GCGATCATGA	0100001101	ACCIICCALA	0110011010	AIGCACIIGC	2010
166	ACCTTTTTCC	AATAGAGATA	GTATCAATTG	TGGCTCCTTC	CGCATCGCAG	CAACATGAAG	2700
167							
168	CACCGTATAT	CCCCTCGGAT	TCCTATGGTT	GACATCGGCA	AGATCAAGTT	TTAAAAGATC	2760
169							
170	TGTTGCGGTC	TTCACATTGC	AATATGCAAC	AGCGAAATGA	AGAGCACACG	CATCATCTAG	2820
171							
172	ATTGGTGTGA	TCCTCTTTCA	AAAGCAACTT	GACTAACTCA	ATATCATCCG	AGTCAAGTGC	2880
173	CDD DODD CA	mmcca ca ca m	COMMUNICATION A	mmma coma co	шаал ласал	COMOMENTACO	2940
174 175	CITATGTACA	TTCGAGACAT	GIIICIIIAC	ITTAGGTACC	ICCAAACCAA	GCTCTTTACG	2940
176	тстатсаатт	ል ጥርጥርጥጥጥል ል	САВССТСТТС	ССССДДТСДС	ጥጥጥሮል ል ፎልሮ	TAACCATATC	3000
177	101111011111		0.2.0010110			1.1.00.110	3000
178	TACATTAGAC	TTGACAATAA	TCTCTTTACA	TCTATCCAAT	AGCTTCATAC	AAGCTTTACC	3060
179							
180	ACATATATTA	GCAAGCTTGA	GTATAACCAA	TGTGTCCTCT	ATAACAACTT	TGTCTACAAC	3120
181							
182	GTCCAATAAG	TGCCTCTGAA	ATACAAATAC	AAGTACTCAA	GTAAGAACAT	ATTCATGAAT	3180
183	GEGET 3 GG3 E	1.CCMM1.1MCC	3 C 3 T C C T C T C T C T C T C T C T C	EEE GGEG 1 E1	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	3.3 mmc3.0003	2040
184	GTGTAACCAT	AGCTTAATGC	AGATGGTGTT	TTACCTGATA	GAGAGTAATT	AATTCAGGGA	3240
185 186	тсттсаасат	CAAACCCAAA	тасасаасст	ССУУСУТСУУ	ATCCACCGCC	GGCCGGCAAG	3300
187	ICIIGAAGAI	GAAAGCCAAA	IAOAOAACCI	CCAACAIGAA	ATCCACCGCC	GGCCGGCAAG	3300
188	CCACGTGGCA	GCAATTCTCG	TCTGCGCATT	CAGAAACTCC	TTTAGGCGGC	GGTCTCACTC	3360
189							
190	TGCTGCTGTA	AACATAAGCC	AAAACAGTCA	CAACCGAATC	GAAACCGACT	TCGTAATCCT	3420
191							
192	TGGCAATCTC	CTTAAGCTCG	AGCTTCACGG	CGGCGGTGTT	GTTGGAGTCT	TTCTCCTTCT	3480
193			mmaaa			a. aaaamaa.	2542
194	TAGCGGCGGC	TAAAGCGCTC	TTGAAGAAAG	AGCTTCTCGC	TGACAAAACG	CACCGGTGGA	3540
195 196	מממממכיייים	ССССССТСС	CACACAACAA	CCTTACCCTC	ССТСТАСААА	TCATCCGGCG	3600
197	MOMMOTIC	ccddccdrcd	CHOHOPINCHI	GCTTAGCGTC	GCIGIAGAAA	TCATCCGGCG	3000
198	AGTCAAAGAC	GGATTCGAAG	CTGTTGGAGA	GCAATTGCAG	AGCAGATACA	TCAGGTCCGG	3660
199	-					· · ·	
200	TGAGTACTTG	TTCGGCGGCC	AGATAAACAA	TAGAGGAGTC	GGTGTTATCG	GTAGCGACGA	3720
201						·	
202	AACTAGTGCT	GCTGATTTCA	TAAGAATCGG	CGAATCCATC	AATGGTGGTG	TCCATCAACA	3780
203	44mm4+		a.a		00m3 3 m == = =	a a. a. a. a. a	2042
204	GGTTCCGATG	AATTGAAATT	CACAAATTAA	AGAGATCTCT	GCTAATCAAC	GAAGAGACCT	3840
205					•		

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207	CARCCACACE	CCMCCTCACA	ጥአጥሮ አአር አአር	СУДССТССТС	ССУСССТТТА	CATTTCACCA	3960
208 209	CAACGAGAGI	GGIGGIGAGA	IAIGAAGAAG	CATCCTCGTC	CCACCOTTI	0	
210 211	AAACCGGTAA	ATTTCCAGGA	AAGGAATCTT	TGTCAGAGAT	CTTTTTTAAA	AAGATATAAC	4020
212	AGGAAGCTAA	ACCGGTTCGG	GTTATAAATG	TTAGTATTTA	TACCGGAGAC	ATTTTGTGTT	4080
213	GCTAATTTTT	GTATATGAGA	AGTTCAATCC	GGTTCGGTAA	GCCCCTGAAC	CAAACTAGAT	4140
215 216	TTGGAGATGA	ТАТАААТАТА	TAAAATTTAT	TTTTCATCCG	GTTCGTTATT	TTCATATAAA	4200
217 218	ТАТАТАААТА	TTATTTTTTA	AATTTAAGAA	TTAGATTTAC	ATGTGAAAGT	TACATTTCTG	4260
219 220	TTTATTTTCT	TTGAAGTAAA	ATGATAAAGG	GAACGTATAT	TAAGTTTCAT	GCTTTATTCA	4320
221 222	CATAAGTTTT	GTAATGTATA	TTATATTTT	CGTTTATTGA	AAAAGTAATT	TTCAGTGTTC	4380
223 224	AGCATGTTTA	CACTATAATT	AAATCAAGTC	GAATATTTCC	TGGAACTATT	CTCCTTGTTC	4440
225 226	TATAGCAAAT	GAAAACGCTC	TTCACAACAA	AATCATTATA	GATATAGGAA	TAAATTACAT	4500
227 228	TAAAAACATG	AAAGTCATAA	TGAATATATT	TTTTTAATTA	GGATTTGATT	ТАААААСААТ	4560
229 230						TTCTGAATCA	4620
231 232						CACGTCTAAA	4680
233						CTGGAAACTG	4740
234							4800
236 237					•	TCATTTTGTT	
238 239						TATGAATACA	4860
240 241						ATAAGGTAAA	4920
242 243	TAAATTATTG	CTTTCCGCGT	TTTTTACTTT	TGTATTTCTT	AAATGATAAG	TTAAATTAGG	4980
244 245	ATAAGATTTG	TATGATTTTA	AGTAAATTTA	CAATAACTCT	CTATAACTCA	ATAGCATCAC	5040
246 247	ATATTTAATT	AATTTTACTA	ATTATCTTTT	GAACAATTTT	ATGAAATAGT	TTTCTTTTAA	5100
248 249	TTAATTTTTT	AAAATGATAT	ATTATAAAAT	TTAATTGAAT	CAATCTGATA	TAATTTTTTT	5160
250	ATCTTCTACC	ATCTATTATA	GTTGATAAAT	ATTGTGATAA	ACTTTAGATA	AACACCCAAT	5220
251 252	TGCCAAATAT	TTAATAAATT	TTGTGTACCA	TGCGTTTTTT	TTGGAGAATA	TATATACGTG	5280
253 254	GACAGCATAC	CGTACATATA	TTGTATAAAA	GCTTATAAAA	CATAGATACG	GGTTATATTG	5340
255 256	GTAAGCTATA	AATATATGTA	AACAATAGTA	AGATATTACG	TGTTGTGTCT	AAATATGTGT	5400
257 258	TGCTTTAGAT	ATTATGTATA	TCTAATATAT	TAAAATATCT	TTTATTAACT	AATATATTAT	5460

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/10/079,035

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Original Text

866

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(2) INFORMATION FOR SEQ ID NO:4:

SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/10/079,035

DATE: 03/13/2002 TIME: 23:49:56

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<< THERE ARE NO ITEMS MISSING >>

SEQUENCE CORRECTION REPORT PATENT APPLICATION US/10/079,035

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Original Text

Corrected Text